

81. (New) The method of claim 14, wherein the animal is a human.

82. (New) The liposome of claim 1, wherein Z<sup>1</sup> is OH or a conversion-inhibiting group selected from the group consisting of -X<sup>1</sup>, -OX<sup>1</sup>, -X<sup>2</sup>X<sup>3</sup> and -OX<sup>2</sup>X<sup>3</sup>.

83. (New) The liposome of claim 1, wherein R<sup>2</sup> is an alkyl chain.

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cont.  
84. (New) The liposome of claim 1, wherein R<sup>1</sup> is CH<sub>3</sub>(CH<sub>2</sub>)<sub>12</sub>-.

85. (New) The liposome of claim 1, wherein Y<sup>1</sup> is -CH=CH-.

86. (New) The liposome of claim 1, wherein Y<sup>2</sup> is H.

87. (New) The liposome of claim 1, wherein Y<sup>3</sup> is -C(O)R<sup>2</sup>.

88. (New) The liposome of claim 1, wherein Z<sup>1</sup> is OH.

89. (New) The liposome of claim 88, wherein Z<sup>2</sup> is a group having the formula -X<sup>2</sup>X<sup>3</sup> or -O-X<sup>2</sup>X<sup>3</sup>.

90. (New) The liposome of claim 89, wherein Z<sup>2</sup> is -OC(O)CH<sub>3</sub>, -OC(O)CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, -OC(O)CH(CH<sub>3</sub>)CH<sub>3</sub> or -OSi(CH<sub>3</sub>)<sub>2</sub>C(CH<sub>3</sub>)<sub>3</sub>.

91. (New) The liposome of claim 90, wherein  $Z^2$  is  $-OSi(CH_3)_2C(CH_3)_3$ .

92. (New) The liposome of claim 88, wherein  $Z^2$  is a group having the formula  $-X^1$  or  $-OX^1$ .

93. (New) The liposome of claim 1, wherein  $Z^1$  is  $-X^1$ ,  $-OX^1$ ,  $-X^2X^3$  and  $-OX^2X^3$ .

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Conc't.* 94. (New) The liposome of claim 93, wherein  $Z^1$  is  $-OC(O)CH_3$ ,  $-OC(O)CH_2CH_2CH_3$ ,  $-OC(O)CH(CH_3)CH_3$  or  $-OSi(CH_3)_2C(CH_3)_3$ .

95. (New) The liposome of claim 1, wherein the compound having the formula  $R^1-Y^1-CHZ^1-CH(NY^2Y^3)-CH_2-Z^2$  is  $CH_3-(CH_2)_{12}-CH=CH-CH_2Z^1-CH(NHY^3)-CH_2Z^2$ .

96. (New) The liposome of claim 95, wherein  $Z^1$  is OH and  $Y^3$  is a group having the formula  $-C(O)R^2$ .

97. (New) The liposome of claim 96, wherein  $Y^3$  is  $-C(O)(CH_2)_4CH_3$ .

98. (New) The liposome of claim 87, wherein  $Z^2$  is  $-OSi(CH_3)_2C(CH_3)_3$ ,  $-OSi(PO_4)_2C(CH_3)_3$ ,  $-C(O)CH_3$  or  $-OC(O)CH_2CH_2CH_3$ .

99. (New) The liposome of claim 1, wherein the bilayer comprises at least about 10 mole percent of the compound having the formula  $R^1-Y^1-CHZ^1-CH(NY^2Y^3)-CH_2-Z^2$  - -